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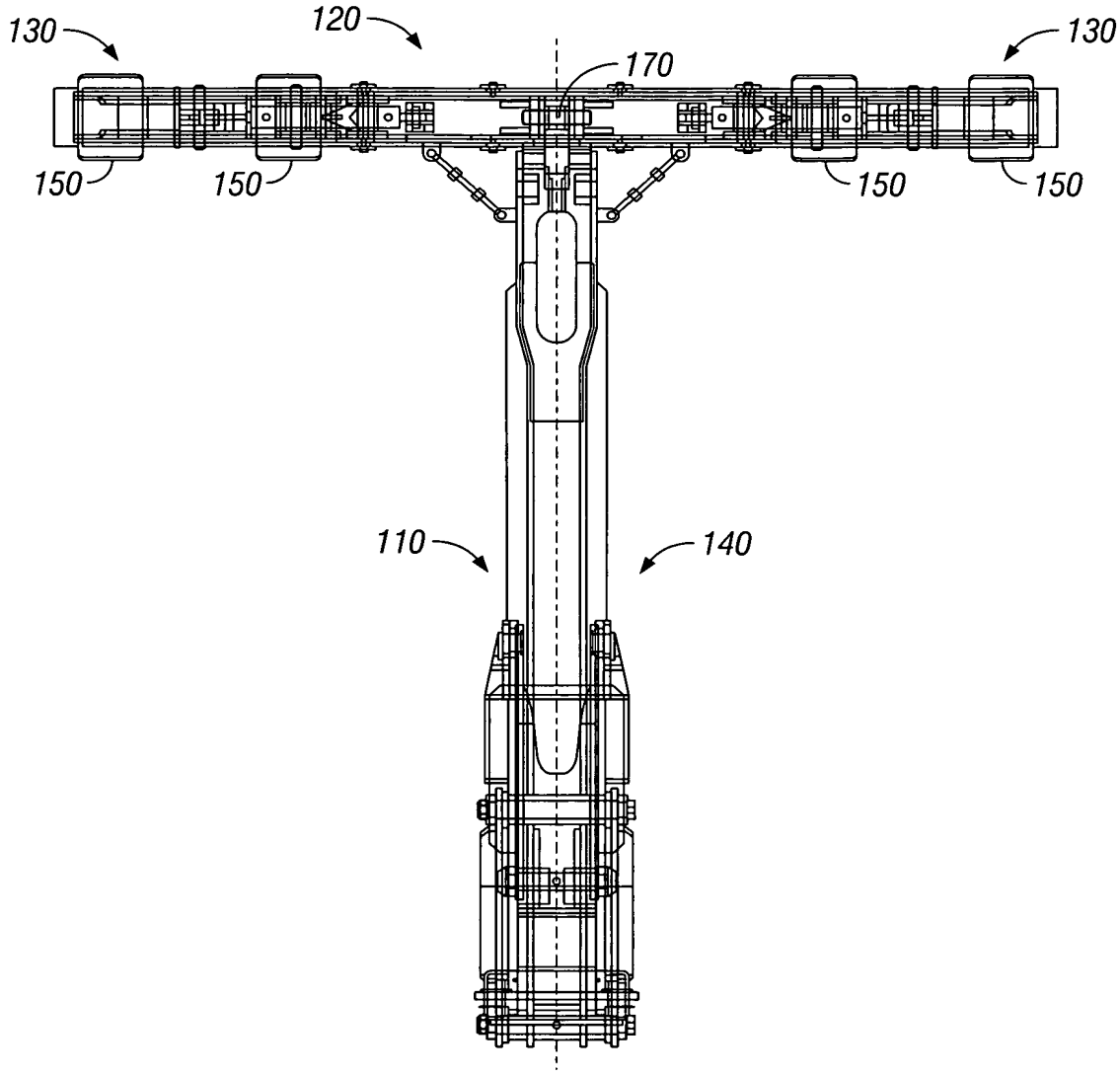

FIG. 1A

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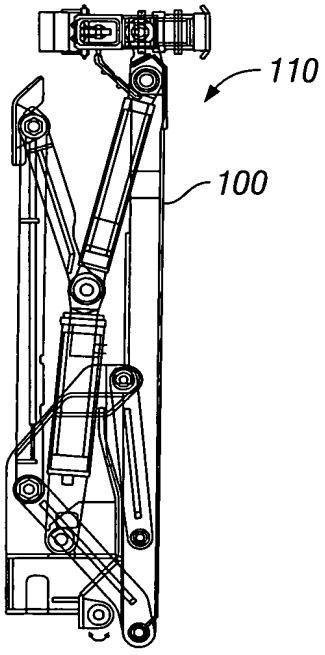

FIG. 1B

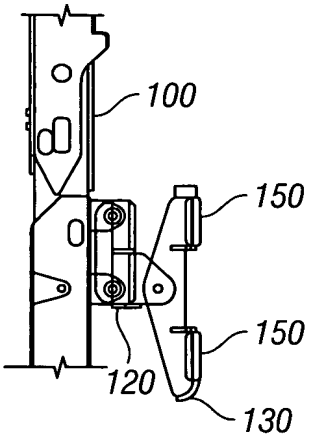

FIG. 1C

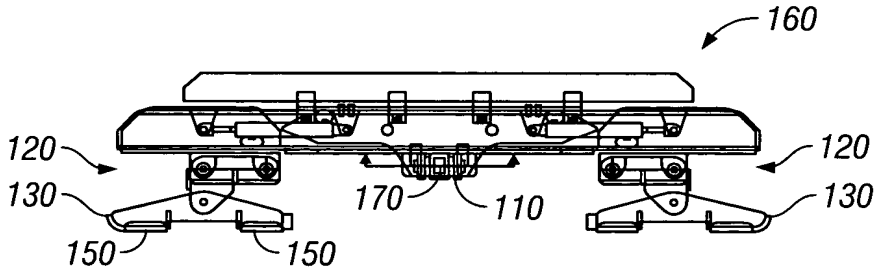

FIG. 1D

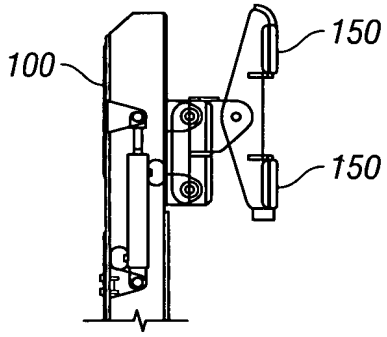

FIG. 1E

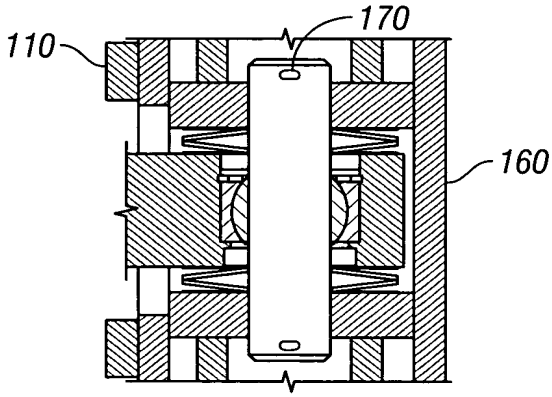

FIG. 1F

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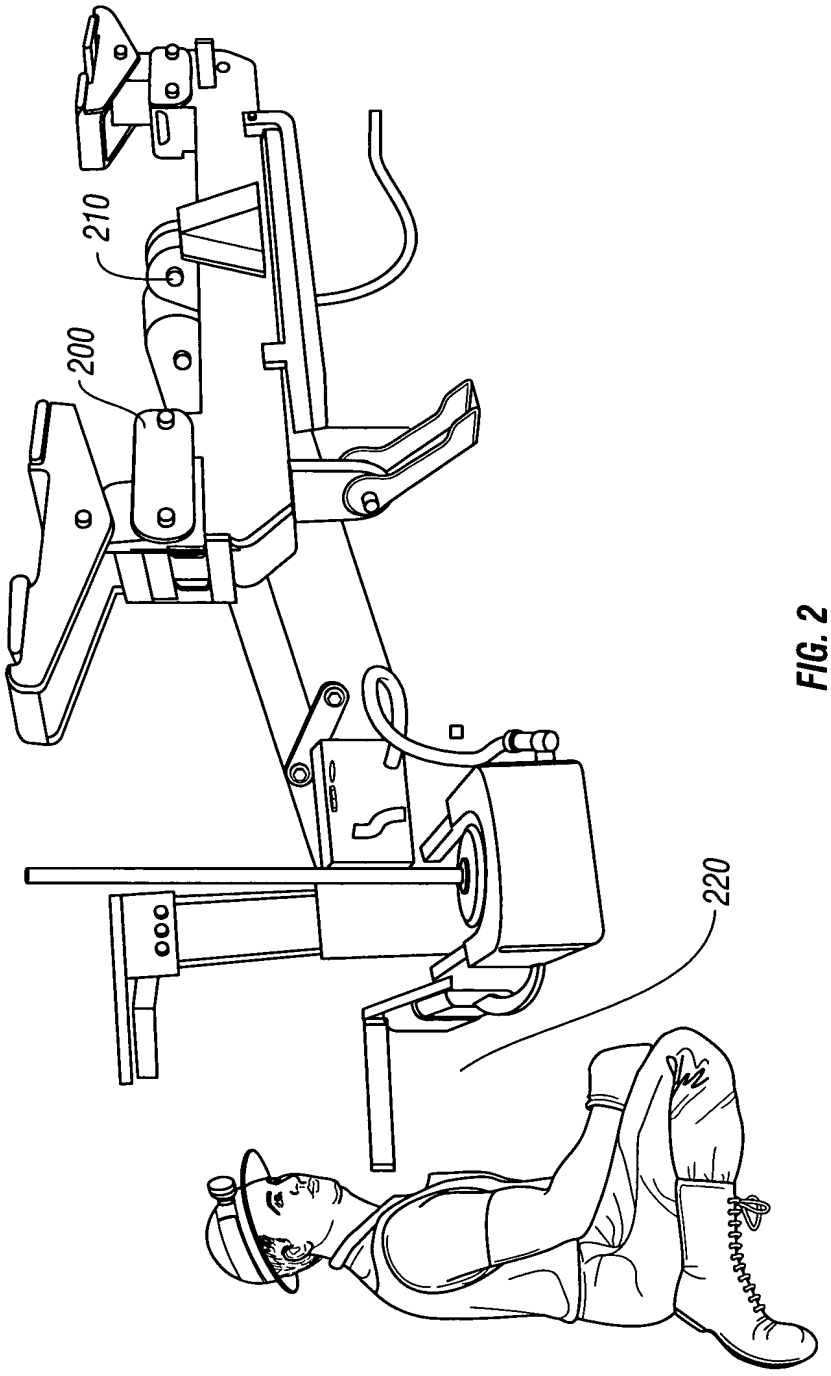

FIG. 2

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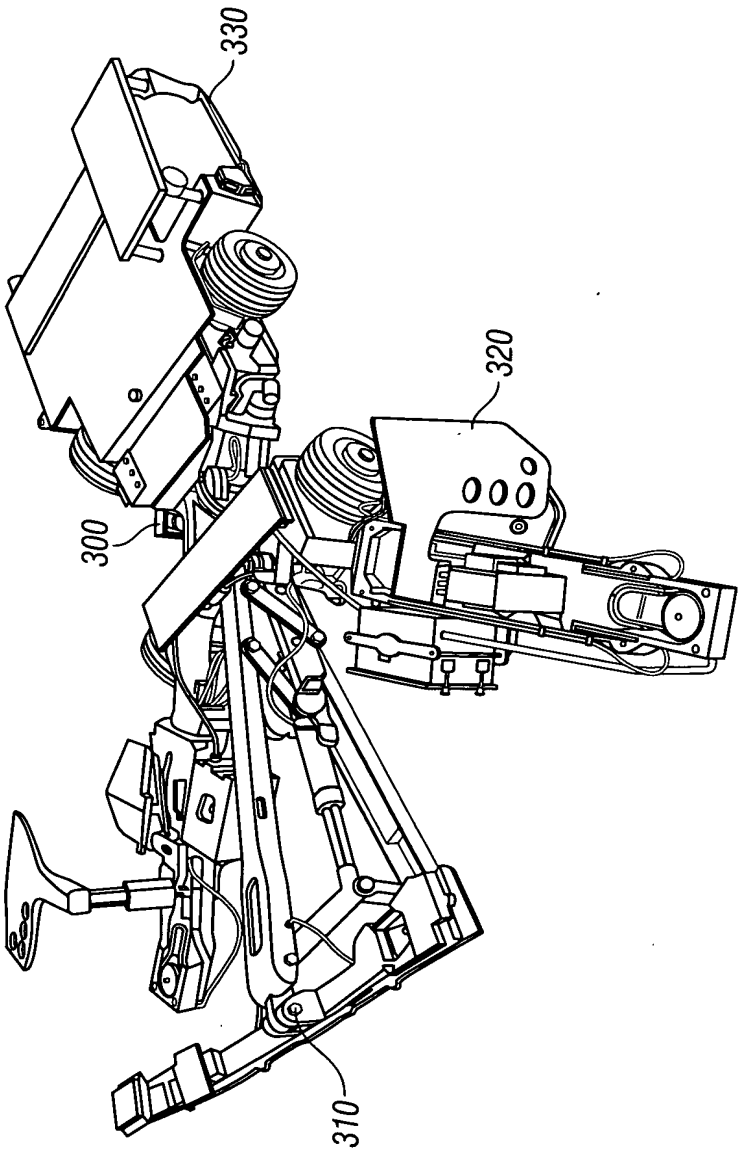

FIG. 3

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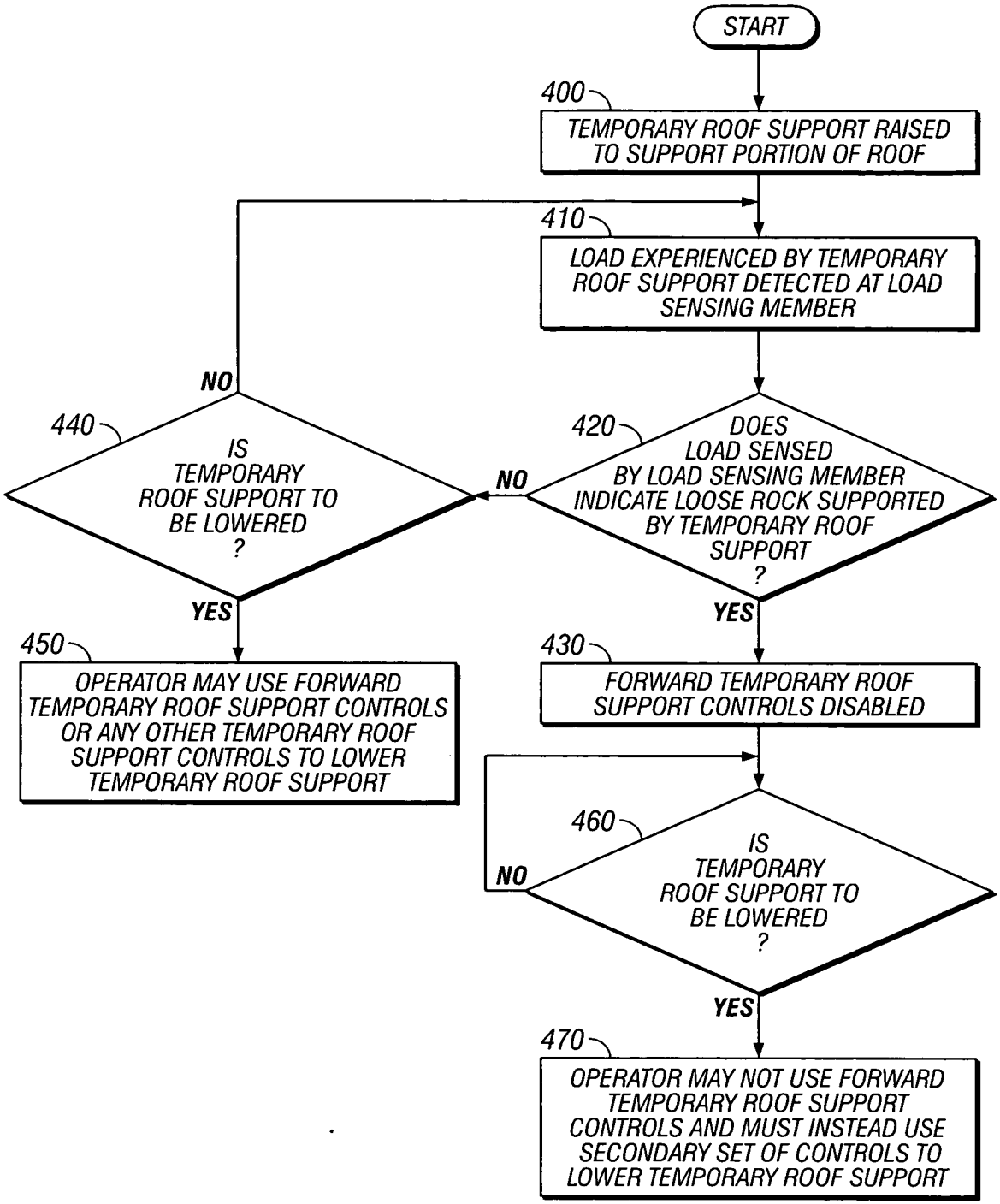
START
400
TEMPORARY ROOF SUPPORT RAISED TO SUPPORT PORTION OF ROOF
410
LOAD EXPERIENCED BY TEMPORARY ROOF SUPPORT DETECTED AT LOAD SENSING MEMBER
420
DOES LOAD SENSED BY LOAD SENSING MEMBER INDICATE LOOSE ROCK SUPPORTED BY TEMPORARY ROOF SUPPORT ?
NO
YES
430
FORWARD TEMPORARY ROOF SUPPORT CONTROLS DISABLED
440
IS TEMPORARY ROOF SUPPORT TO BE LOWERED ?
NO
YES
450
OPERATOR MAY USE FORWARD TEMPORARY ROOF SUPPORT CONTROLS OR ANY OTHER TEMPORARY ROOF SUPPORT CONTROLS TO LOWER TEMPORARY ROOF SUPPORT
460
IS TEMPORARY ROOF SUPPORT TO BE LOWERED ?
NO
YES
470
OPERATOR MAY NOT USE FORWARD TEMPORARY ROOF SUPPORT CONTROLS AND MUST INSTEAD USE SECONDARY SET OF CONTROLS TO LOWER TEMPORARY ROOF SUPPORT

FIG. 4

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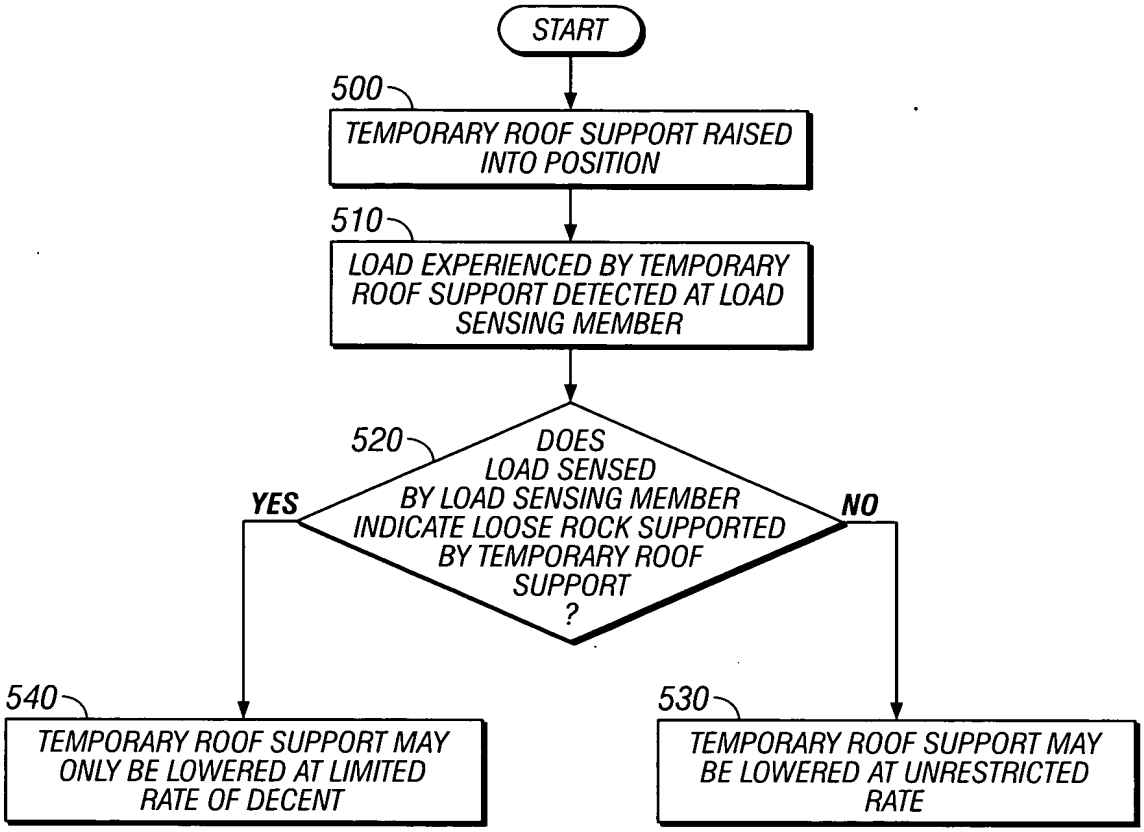
START
500
TEMPORARY ROOF SUPPORT RAISED INTO POSITION
510
LOAD EXPERIENCED BY TEMPORARY ROOF SUPPORT DETECTED AT LOAD SENSING MEMBER
520
DOES LOAD SENSED BY LOAD SENSING MEMBER INDICATE LOOSE ROCK SUPPORTED BY TEMPORARY ROOF SUPPORT ?
YES
NO
540
TEMPORARY ROOF SUPPORT MAY ONLY BE LOWERED AT LIMITED RATE OF DECENT
530
TEMPORARY ROOF SUPPORT MAY BE LOWERED AT UNRESTRICTED RATE

FIG. 5

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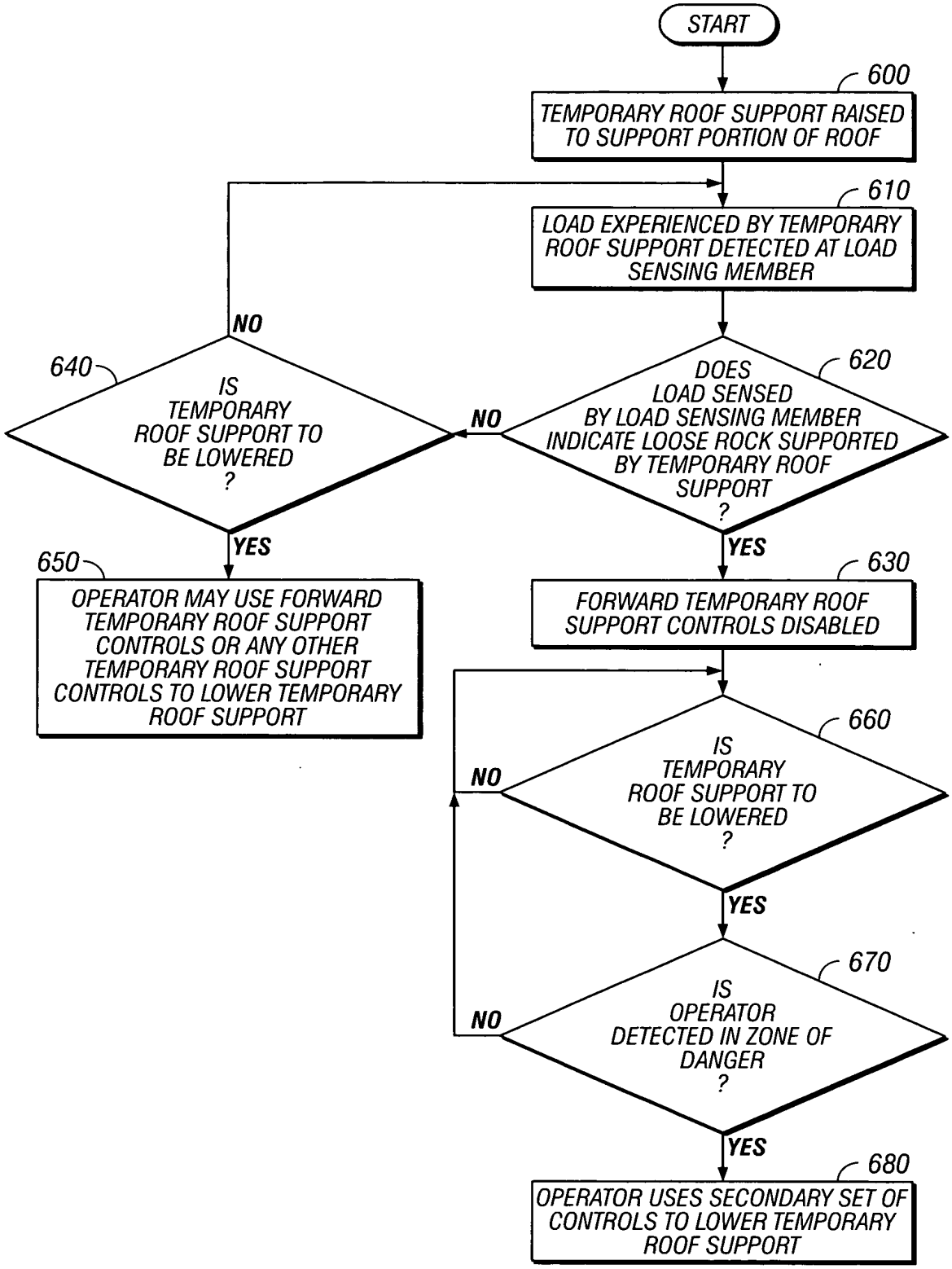
START
600
TEMPORARY ROOF SUPPORT RAISED TO SUPPORT PORTION OF ROOF
610
LOAD EXPERIENCED BY TEMPORARY ROOF SUPPORT DETECTED AT LOAD SENSING MEMBER
620
DOES LOAD SENSED BY LOAD SENSING MEMBER INDICATE LOOSE ROCK SUPPORTED BY TEMPORARY ROOF SUPPORT ?
NO
YES
640
IS TEMPORARY ROOF SUPPORT TO BE LOWERED ?
NO
YES
650
OPERATOR MAY USE FORWARD TEMPORARY ROOF SUPPORT CONTROLS OR ANY OTHER TEMPORARY ROOF SUPPORT CONTROLS TO LOWER TEMPORARY ROOF SUPPORT
630
FORWARD TEMPORARY ROOF SUPPORT CONTROLS DISABLED
660
IS TEMPORARY ROOF SUPPORT TO BE LOWERED ?
NO
YES
670
IS OPERATOR DETECTED IN ZONE OF DANGER ?
NO
YES
680
OPERATOR USES SECONDARY SET OF CONTROLS TO LOWER TEMPORARY ROOF SUPPORT

FIG. 6

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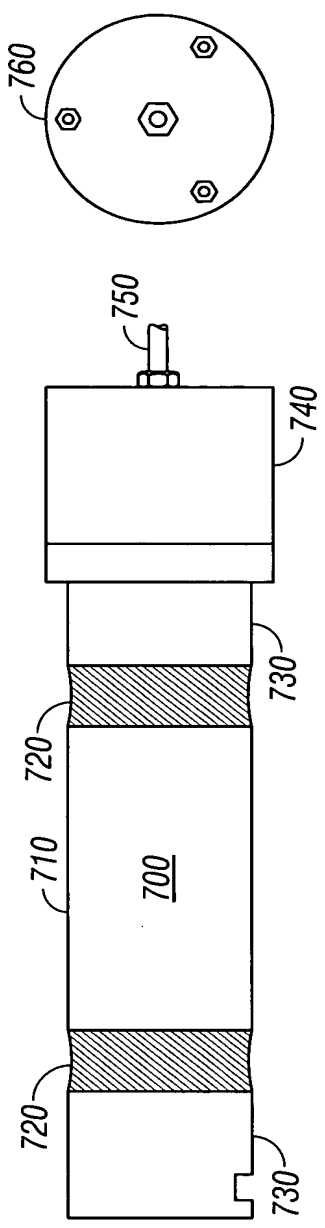

FIG. 7

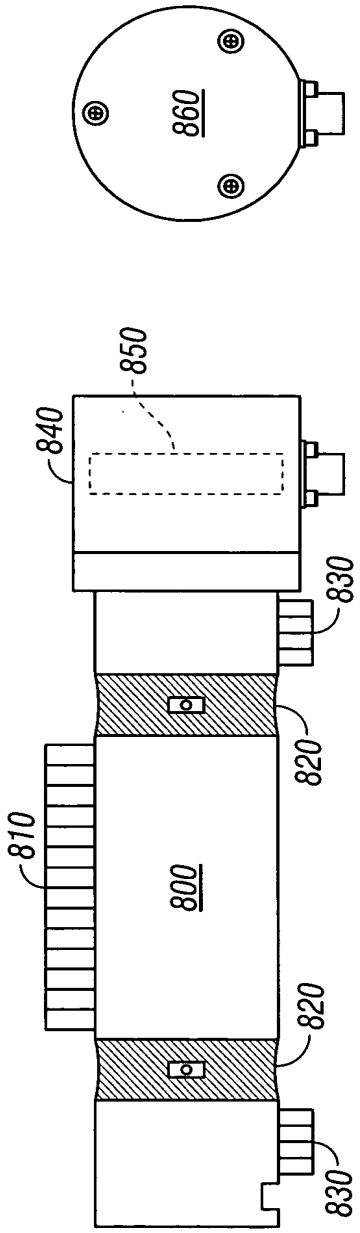

FIG. 8

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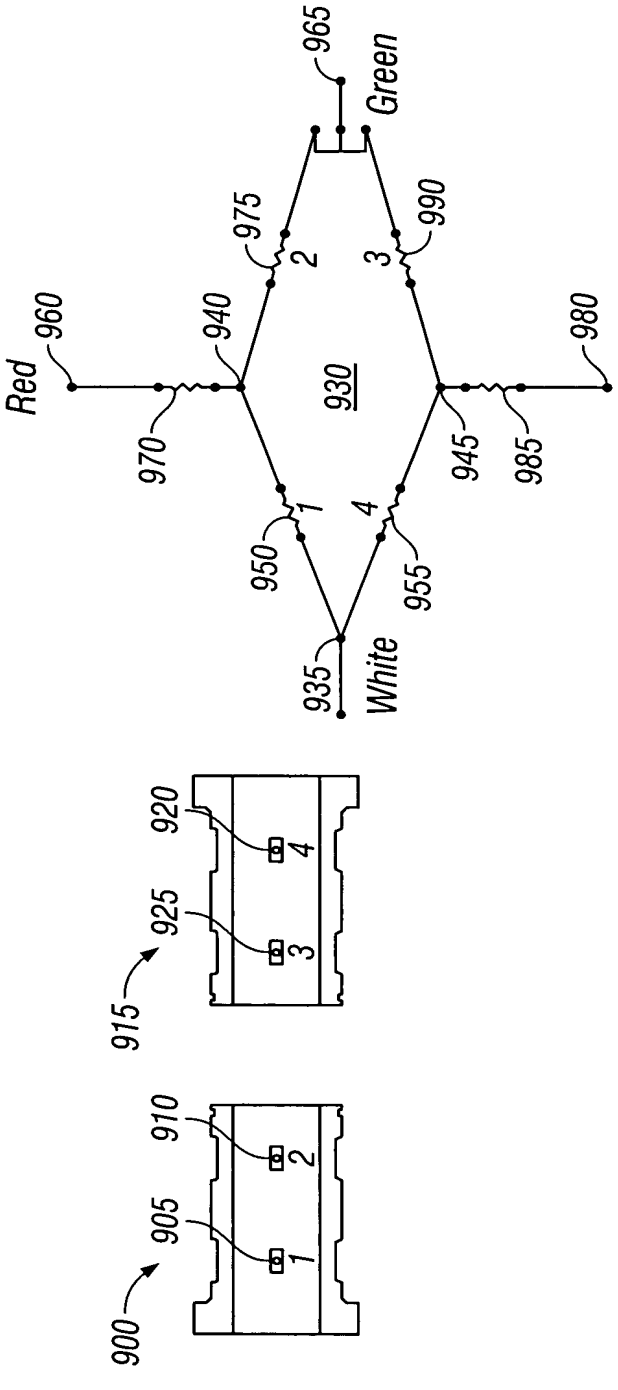

FIG. 9

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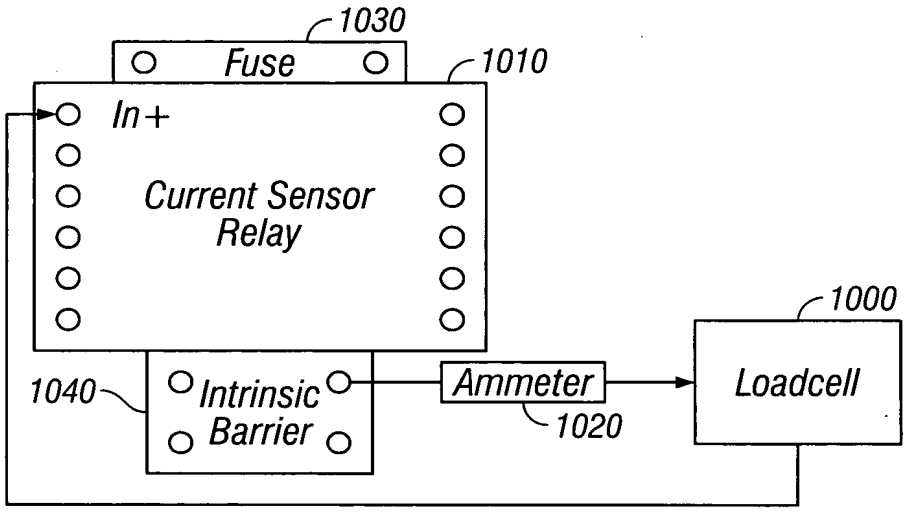

FIG. 10

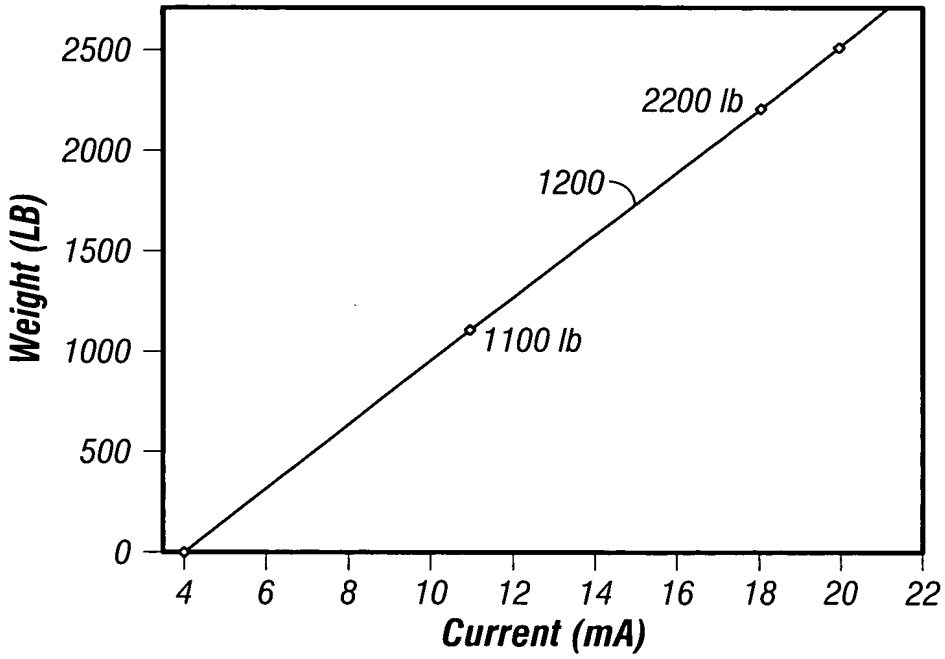

FIG. 12

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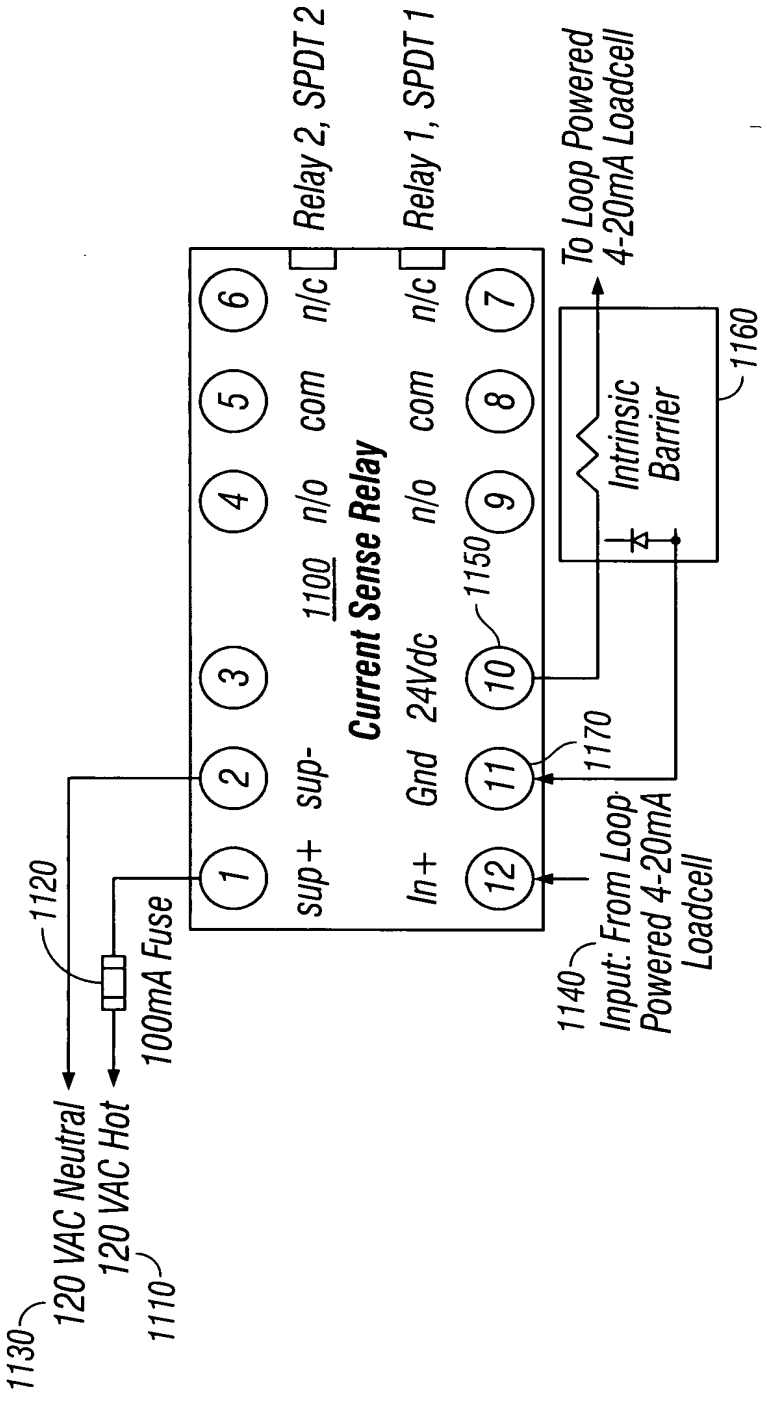

FIG. 11

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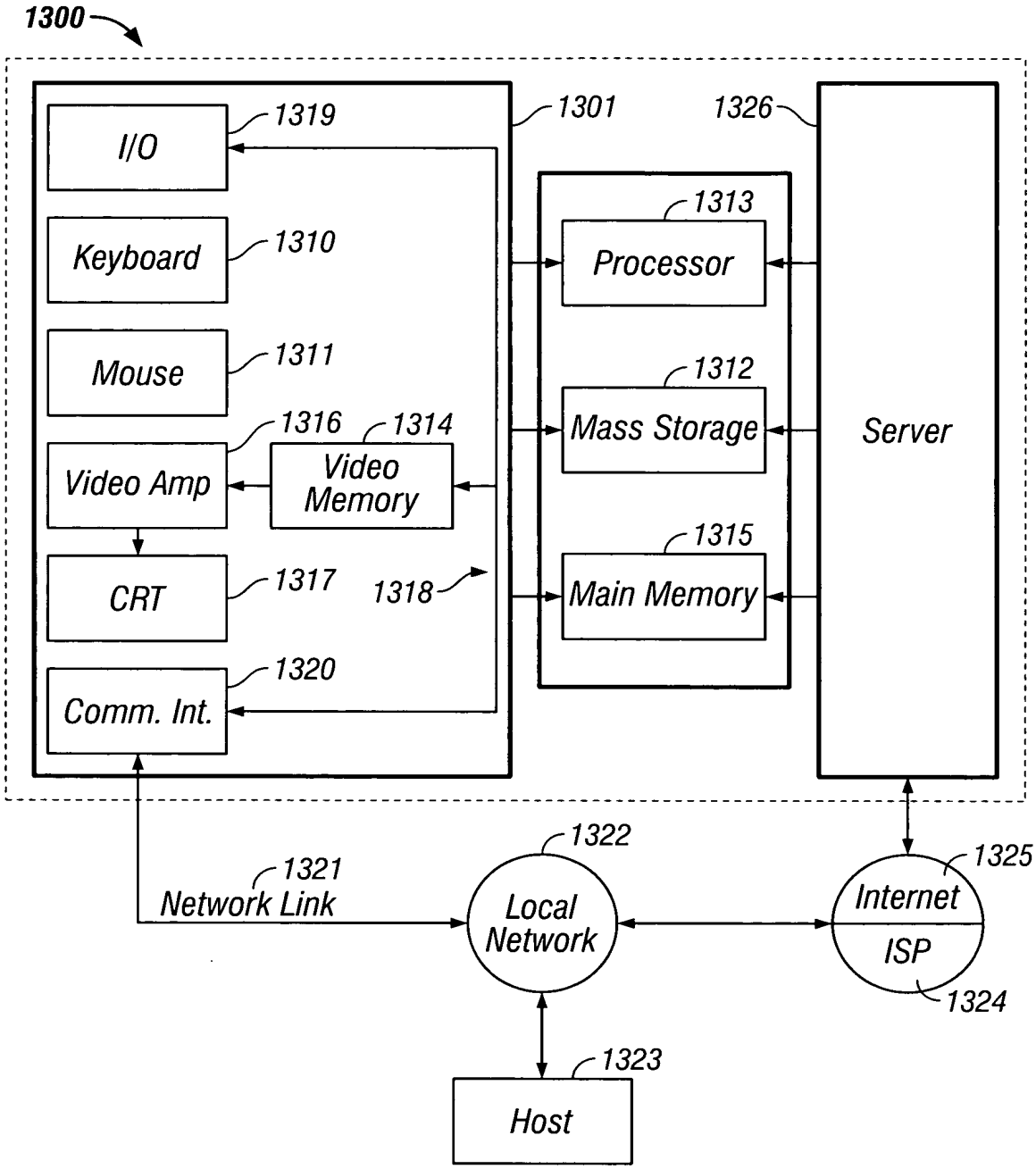

FIG. 13